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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- (Currently Amended) A water-soluble <u>vinyl-based</u> polymer compound having sugar-chain(s) comprising; a monosaccharide or an oligosaccharide residue bound to side chain(s) of a water-soluble polymer through a linker-containing a selectively cleavable bond, the water-soluble polymer-containing 20 to 80 mol% of (meth)acrylic acid residue, and the linker being bonded to a repeating unit other than (meth)acrylic acid residue
 - (i) 20 to 80 mol% of (meth)acrylic acid residue;
- (ii) 0.1 to 50 mol% of a first vinyl monomer residue comprising a sugar chain and a linker, the sugar chain comprising a monosacharride or an oligosaccharide residue and the linker comprising a selectively cleavable bond; and
- (iii) at least a second vinyl monomer residue different from the (meth)acrylic acid residue and the first vinyl monomer residue.
- 2. (Currently Amended) A compound according to Claim 1, wherein <u>further</u> <u>comprising</u> amino acid or peptide residues bound to a <u>the</u> monosaccharide or an oligosaccharide residue<u>s</u> are linked to side chain(s) of the water-soluble polymer through a linker containing a selectively cleavable bond, the water soluble polymer containing 20 to 80 mol% of (meth)aerylic acid residue, and the linker being bound to a repeating unit other than (meth)aerylic acid residue.
- 3. (Currently Amended) A compound according to Claim 1, wherein the water-soluble polymer is a copolymer comprising 20 to 80 mol% of (meth)aerylic acid and 80 to 20 mol% of one or more the first vinyl monomers monomer residue is selected from the group consisting of acrylamide derivatives, methacrylamide derivatives, acrylic esters, methacrylic esters, styrene derivatives and fatty-acid vinyl esters.

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 (Previously Presented) A compound according to Claim 1, wherein the selectively cleavable bond contained in the linker can be cleaved by hydrogenolysis or by oxidation using 2.3-dichloro-5.6-dicvanobenzoquinone.

 (Withdrawn-Currently Amended) A compound according to Claim 1, wherein the linker and the sugar chain together is a group represented by General Formula (I),

$$R^{1 - O} \underbrace{\hspace{1cm} \bigcap_{i \in I}^{O} R^{2 - X}}_{i}$$

wherein R^1 is a monosaccharide or an oligosaccharide residue, R^2 is a bivalent linking group with a length equivalent to 4 to 20 methylene groups, and X is O, S, or NH.

- (Withdrawn) A compound according to Claim 5, wherein R¹ is an N-acetylglucosamine residue, a glucose residue or a lactose residue.
 - 7. (Withdrawn) A compound according to Claim 5, wherein \mathbb{R}^2 is a pentylene group.
- 8. (Currently Amended) A compound according to Claim 1, wherein the linker <u>and</u> the <u>sugar chain together</u> is a group represented by General Formula (II),

wherein R^3 is a monosaccharide or an oligosaccharide residue, R^4 is a C_{6-20} alkyl or alkenyl group, R^5 is a bivalent linking group with a length equivalent to 5 to 19 methylene groups, and Y is O, S, or NH.

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9. (Original) A compound according to Claim 8, wherein \mathbb{R}^3 is a glucose or lactose residue.

 (Withdrawn-Currently Amended) A compound according to Claim 1, wherein the linker and the sugar chain together is a group represented by General Formula (III).

$$R^{6} \sim 0^{-R^{7}} Z \xrightarrow{O \subset H} N \xrightarrow{R^{8} \sim W} (III)$$

wherein R^6 is a monosaccharide or an oligosaccharide residue, R^7 is a bivalent linking group with a length equivalent to 2 to 20 methylene groups, R^8 is a bivalent linking group with a length equivalent to 5 to 19 methylene groups, and Z and W are each independently O, S, or NH.

- $11. \qquad \hbox{(Withdrawn) A compound according to Claim 10, wherein R^6 is an N-acetylglucosamine residue.}$
- (Original) A compound according to Claim 2, wherein the peptide residue consists of 2 to 30 amino acid residues.
- (Previously Presented) A compound according to Claim 1, wherein the selectively cleavable bond contained in the linker can be cleaved by an appropriate hydrolase.
- (Original) A compound according to Claim 13, wherein the appropriate hydrolase is ceramide glycanase or α-chymotrypsin.

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15. (Original) A compound according to Claim 13, wherein the appropriate hydrolase is a protease that does not have a cleavage site in an amino acid or peptide residue to which a monosaccharide or an oligosaccharide residue is bound.

16. (Withdrawn) A compound according to Claim 15, wherein the linker containing a selectively cleavable bond that is linked to an amino acid or a peptide residue bound to a monosaccharide or an oligosaccharide residue is a group represented by General Formula (IV),

$$-R^9-R^{10}$$
- (IV)

wherein R9 is a bivalent linking group with a length equivalent to 1 to 20 methylene groups and is linked to the water-soluble polymer compound, and R¹⁰ is an amino acid or a peptide residue containing a cleavable site by an appropriate protease and is bound to a monosaccharide or an oligosaccharide residue, and that the monosaccharide or oligosaccharide residue is bound to a side chain functional group of Asn, Asp, Cvs, Gln, Glu, Lvs, Ser, Thr or Tyr residue, or to a side chain functional group of the amino acid residue in a peptide residue directly or through a bivalent linking group via a glycosidic bond.

17. (Withdrawn) A compound according to Claim 16, wherein R⁹ is a group represented by General Formula (V),

$$-A-(CH_2)_n-CO-$$
 (V)

wherein A is O, CH2, C=O, or NH, the group is linked to a side chain of the water-soluble polymer through A, and n is an integer from 1 to 18.

18 (Withdrawn) A compound according to Claim 16, wherein the bivalent linking group bound to the side chain functional group is a group with a length equivalent to 1 to 20 methylene groups.

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19. (Withdrawn) A compound according to Claim 16, wherein the bivalent linking group linked to the side chain functional group is a group represented by General Formula (VI).

$$-B-(CH_2)_n-O-$$
 (VI)

wherein B is O, NH, or C=O, the group is linked to the side chain functional group of an amino acid residue through B, and n is an integer from 1 to 18.

- 20. (Currently Amended) A water-soluble polymer primer for glycoconjugate synthesis comprising a water-soluble vinyl-based polymer compound having sugar chain(s) according to Claim 1.
- (Withdrawn) A method for producing a water-soluble polymer compound having 21. sugar chain(s) comprising a step of copolymerization of (meth)acrylic acid, a (meth)acrylamide derivative represented by General Formula (VII),

$$\mathbb{R}^{11} \stackrel{O}{\longleftarrow} \mathbb{H}^{12} \stackrel{H}{\longleftarrow} \mathbb{R}^{12} \stackrel{H}{\longleftarrow} \mathbb{R}^{11} \stackrel{(VII)}{\longleftarrow} \mathbb{R}^{11} \stackrel{(VII)}{\longleftarrow} \mathbb{R}^{11} \stackrel{O}{\longleftarrow} \mathbb{R}^{11} \stackrel{O}{\longrightarrow} \mathbb{R}^{11} \stackrel{O}{\longrightarrow} \mathbb{R}^{11} \stackrel{O}{\longrightarrow} \mathbb{R}^{11} \stackrel{O}{\longrightarrow} \mathbb{R}^{11} \stackrel{O}{\longrightarrow} \mathbb{R}^{11} \stackrel{O}{\longrightarrow} \mathbb{$$

wherein R11 is a monosaccharide or an oligosaccharide residue, and R12 is a bivalent linking group with a length equivalent to 4 to 20 methylene groups, and at least one vinyl monomer in such a manner that the proportion of the (meth)acrylic acid in the total vinyl copolymers is 20 to 80 mol%.

- (Withdrawn) A method according to Claim 21, wherein R¹¹ is an N-22. acetylglucosamine residue, a glucose residue, or a lactose residue.
 - (Withdrawn) A method according to Claim 21, wherein R¹² is a pentylene group. 23.

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24. (Withdrawn) A method according to Claim 21, wherein the vinyl monomer is at least one monomer selected from the group consisting of acrylamide derivatives, methacrylamide derivatives, acrylic esters, methacrylic acid esters, styrene derivatives, and fatty acid vinyl esters.

25. (Currently Amended) A method for producing a glycoconjugate comprising the steps of:

transferring a sugar residue from a sugar nucleotide to a polymer compound by contacting a water-soluble <u>vinyl-based</u> polymer compound having sugar chain(s) of Claim 1 with a glycosyltransferase in the presence of a sugar nucleotide.

elongating the sugar chain by repeating the transferring step 4 two or more times if necessary.

removing by-product nucleotides or unreacted sugar nucleotides if necessary, and after repeating the-above steps 1-to-3 two or more times, releasing the resultant glycoconjugate sugar chain from the water-soluble polymer compound which binds the sugar chain elongated by the transfer of the plurality of sugar residues.

26. (Currently Amended) A method for producing a glycoconjugate comprising the steps of:

transferring a sugar residue from a sugar nucleotide to a water-soluble polymer compound by the action of a glycosyltransferase to the water-soluble <u>vinyl-based</u> polymer compound having-sugar-chain(s) of Claim 8 in the presence of a sugar nucleotide,

elongating the sugar chain by repeating the transferring step 4 two or more times if necessary.

removing by-product nucleotides or unreacted sugar nucleotides if necessary and after repeating the above steps 1-to-3 two or more times, transferring the resultant oligosaccharide elongated by transfer of the plurality of sugar residues from the water-soluble polymer compound to ceramide by the action of ceramide glycanase in the presence of ceramide.